

June 2016

TABLE B-5. SCREENING CRITERIA FOR AIR AND EPA AND PRIVATE LABORATORY REFERENCE

Analyte	Analytical Method ⁽¹⁾	Units	CASRN	EPA Indoor Residential Air Screening Level ⁽²⁾	EPA Crawl Space Residential Air Screening Level ⁽³⁾	EPA Sub-Slab Residential Air Screening Level ⁽³⁾	Project Screening Level ⁽⁴⁾	Achievable	Private Laboratory RL for TO-15 SIM
								DL	
Volatile Organic Compounds (VOCs), including Naphthalene									
Acetone	TO-15 SIM/TO-15	µg/m ₃	67-64-1	32,000	32,000	1,066,667	32,000	0.109	1.188
Benzene	TO-15 SIM/TO-15	µg/m ₃	71-43-2	0.36	0.36	12	0.36	0.249	0.31947
Bromodichloromethane	TO-15 SIM/TO-15	µg/m ₃	75-27-4	0.076	0.076	3	0.076	0.121	0.670
Bromoform	TO-15 SIM/TO-15	µg/m ₃	75-25-2	2.6	2.6	87	2.6	0.114	1.034
Bromomethane	TO-15 SIM/TO-15	µg/m ₃	74-83-9	5.2	5.2	173	5.2	0.299	1.553
1,3-Butadiene	TO-15 SIM/TO-15	µg/m ₃	106-99-0	0.094	0.094	3	0.094	0.049	0.221
2-Butanone (Methyl Ethyl Ketone)	TO-15 SIM/TO-15	µg/m ₃	78-93-3	5,200	5,200	173,333	5,200	0.147	1.180
Carbon Disulfide	TO-15 SIM/TO-15	µg/m ₃	75-15-0	730	730	24,333	730	0.115	1.557
Carbon Tetrachloride	TO-15 SIM/TO-15	µg/m ₃	56-23-5	0.47	0.47	16	0.47	0.069	0.6292
Chlorobenzene	TO-15 SIM/TO-15	µg/m ₃	108-90-7	52	52	1,733	52	0.041	0.460
Chloroethane (ethyl chloride)	TO-15 SIM/TO-15	µg/m ₃	75-00-3	10,000	10,000	333,333	10,000	0.132	1.31943
Chloroform	TO-15 SIM/TO-15	µg/m ₃	67-66-3	0.12	0.12	4	0.12	0.054	0.4883
Chloromethane	TO-15 SIM/TO-15	µg/m ₃	74-87-3	94	94	3,133	94	0.114	1.032
3-Chloropropene	TO-15 SIM/TO-15	µg/m ₃	107-05-1	0.47	0.47	16	0.47	0.213	1.565
alpha-Chlorotoluene	TO-15 SIM/TO-15	µg/m ₃	100-44-7	0.057	0.057	2	0.057	0.072	0.518
Cumene	TO-15 SIM/TO-15	µg/m ₃	98-82-8	420	420	14,000	420	0.059	0.492
Cyclohexane	TO-15 SIM/TO-15	µg/m ₃	110-82-7	6,300	6,300	210,000	6,300	0.072	0.344
Dibromochloromethane	TO-15 SIM/TO-15	µg/m ₃	124-48-1	NS	NS	NS	NS	0.111	0.852
1,2-Dichlorobenzene	TO-15 SIM/TO-15	µg/m ₃	95-50-1	210	210	7,000	210	0.144	0.601
1,3-Dichlorobenzene	TO-15 SIM/TO-15	µg/m ₃	541-73-1	NS	NS	NS	NS	0.114	0.601
cis-1,2-Dichloroethene	TO-15 SIM/TO-15	µg/m ₃	156-59-2	NS	NS	NS	NS	0.107	0.39648
1,1-Dichloroethane	TO-15 SIM/TO-15	µg/m ₃	75-34-3	1.8	1.8	60	1.8	0.077	0.40479
1,1-Dichloroethene	TO-15 SIM/TO-15	µg/m ₃	75-35-4	210	210	7,000	210	0.091	0.39652
1,2-Dibromoethane (EDB)	TO-15 SIM/TO-15	µg/m ₃	106-93-4	0.0047	0.0047	0	0.0047	0.115	0.76843
1,2-Dichloroethane	TO-15 SIM/TO-15	µg/m ₃	107-06-2	0.11	0.11	4	0.11	0.081	0.40474
1,4-Dichlorobenzene	TO-15 SIM/TO-15	µg/m ₃	106-46-7	0.26	0.26	9	0.26	0.084	0.60127
trans-1,2-Dichloroethene	TO-15 SIM/TO-15	µg/m ₃	156-60-5	NS	NS	NS	NS	0.075	0.39648
1,2-Dichloropropane	TO-15 SIM/TO-15	µg/m ₃	78-87-5	0.28	0.28	9	0.28	0.055	0.462
cis-1,3-Dichloropropene	TO-15 SIM/TO-15	µg/m ₃	10061-01-	NS	NS	NS	NS	0.077	0.454
1,4-Dioxane	TO-15 SIM/TO-15	µg/m ₃	123-91-1	0.56	0.56	19	0.56	0.133	0.360
Ethanol	TO-15 SIM/TO-15	µg/m ₃	64-17-5	NS	NS	NS	NS	0.141	0.942
Ethyl Benzene	TO-15 SIM/TO-15	µg/m ₃	100-41-4	1.1	1.1	37	1.1	0.096	0.43419
4-Ethyltoluene	TO-15 SIM/TO-15	µg/m ₃	622-96-8	NS	NS	NS	NS	0.088	0.492
Freon 11	TO-15 SIM/TO-15	µg/m ₃	75-69-4	NS	NS	NS	NS	0.09	0.562
Freon 113	TO-15 SIM/TO-15	µg/m ₃	76-13-1	31,000	31,000	1,033,333	31,000	0.1	0.766
Freon 114	TO-15 SIM/TO-15	µg/m ₃	76-14-2	NS	NS	NS	NS	0.077	0.699
Freon 12 (dichlorodifluoromethane)	TO-15 SIM/TO-15	µg/m ₃	75-71-8	100	100	3,333	100	0.094	0.494
Heptane	TO-15 SIM/TO-15	µg/m ₃	142-82-5	NS	NS	NS	NS	0.041	0.410
Hexachlorobutadiene	TO-15 SIM/TO-15	µg/m ₃	87-68-3	0.13	0.13	4	0.13	0.469	5.333
Hexane	TO-15 SIM/TO-15	µg/m ₃	110-54-3	730	730	24,333	730	0.053	0.352
2-Hexanone	TO-15 SIM/TO-15	µg/m ₃	591-78-6	31	31	1,033	31	0.225	2.048
Methylene Chloride	TO-15 SIM/TO-15	µg/m ₃	75-09-2	100	100	3,333	100	0.069	0.695
4-Methyl-2-pentanone	TO-15 SIM/TO-15	µg/m ₃	108-10-1	3,100	3,100	103,333	3,100	0.078	0.410
Methyl tert-butyl ether	TO-15 SIM/TO-15	µg/m ₃	#####	110	110	3,667	110	0.054	0.36053
Naphthalene	TO-15 SIM/TO-15	µg/m ₃	91-20-3	0.83	0.83	28	0.83	NS	0.26
Propylbenzene	TO-15 SIM/TO-15	µg/m ₃	103-65-1	1,000	1,000	33,333	1,000	0.074	0.492
2-Propanol	TO-15 SIM/TO-15	µg/m ₃	67-63-0	210	210	7,000	210	0.388	1.229

1,1,2,2-Tetrachloroethane	TO-15 SIM/TO-15	µg/m ₃	79-34-5	0.048	0.048	2	0.048	0.124	0.68654	0.14
Tetrachloroethene	TO-15 SIM/TO-15	µg/m ₃	127-18-4	11	11	367	11	0.061	0.67832	0.14
Toluene	TO-15 SIM/TO-15	µg/m ₃	108-88-3	5,200	5,200	173,333	5,200	0.064	0.37681	0.075
1,2,4-Trichlorobenzene	TO-15 SIM/TO-15	µg/m ₃	120-82-1	2.1	2.1	70	2.1	0.334	3.711	3.711
Trichloroethene	TO-15 SIM/TO-15	µg/m ₃	79-01-6	0.48	0.48	16	0.48	0.107	0.53738	0.075
1,1,1-Trichloroethane	TO-15 SIM/TO-15	µg/m ₃	71-55-6	5,200	5,200	NS	5,200	0.065	0.54569	0.11
1,1,2-Trichloroethane	TO-15 SIM/TO-15	µg/m ₃	79-00-5	0.18	0.18	6	0.18	0.082	0.54569	0.11
1,2,4-Trimethylbenzene	TO-15 SIM/TO-15	µg/m ₃	95-63-6	7.3	7.3	243	7.3	0.034	0.492	0.492
1,3,5-Trimethylbenzene	TO-15 SIM/TO-15	µg/m ₃	108-67-8	NS	NS	NS	NS	0.098	0.492	0.492
2,2,4-Trimethylpentane	TO-15 SIM/TO-15	µg/m ₃	540-84-1	NS	NS	NS	NS	0.121	2.336	2.336
m,p-Xylene	TO-15 SIM/TO-15	µg/m ₃	108-38-3	100	100	3,333	100	0.056	0.43423	0.17
o-Xylene	TO-15 SIM/TO-15	µg/m ₃	95-47-6	100	100	3,333	100	0.069	0.43423	0.087
Vinyl Chloride	TO-15 SIM/TO-15	µg/m ₃	75-01-4	0.17	0.17	5.67	0.17	0.023	0.255	0.026

NOTES:

Wilcox Oil Company

Bristow, Creek County, Oklahoma

Sampling and Analysis Plan

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